

(12) UK Patent Application (19) GB (11) 2 331 596 (13) A

(43) Date of A Publication 26.05.1999

(21) Application No 9825200.0

(22) Date of Filing 17.11.1998

(30) Priority Data

(31) 19751977 (32) 25.11.1997 (33) DE

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(51) INT CL⁶

F02B 37/12

(52) UK CL (Edition Q)

G3N NGE1B NGE3A N288A N288B N372 N373 N402X
U1S S1994

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(58) Field of Search

UK CL (Edition Q) G3N NGA4 NGE1B NGE3A
NGE3AA NGE3AB NGE3AC
INT CL⁶ F02B 37/12 37/22 37/24
Online databases: EPODOC, PAJ, WPI

(54) Abstract Title

Control system for the supercharging pressure of a turbocharged internal combustion engine

(57) The variable geometry of the engine turbine is adjusted by an actuator 7 controlled by the system which includes: an open-loop control device 2 using at least one characteristic curve responding to engine speed and fuel injection quantity; a turn-off, closed loop regulating device 3 responding to the deviation ΔP_2 of the actual and desired supercharging pressure; a changeover device (4, Figure 2) for turning the regulating device on and off; and a precontrol device 5 for calculating a pre-control pulse duty factor for adding to the operating path 1 via adder 12. Device 5 responds to the over- or under-shooting of a gradient of the deviation ΔP_2 from a predefined window to provide better torque control under transitional conditions.

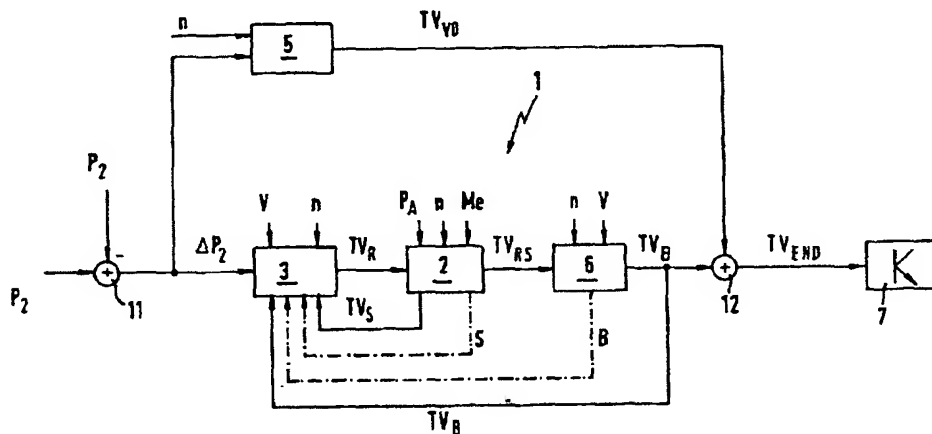


FIG.1

GB 2 331 596 A